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Short Paper

DESIGN, DEVELOPMENT AND CHARACTERIZATION OF HERBAL LIPSTICK CONTAINING NATURAL INGREDIENTS

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ABSTRACT

Coloring lips is an ancient practice going back to prehistoric period. In present days the use of such product has increased and choice of shades of color, texture and luster have been changed and become wider. This can be observed from the fact that lipsticks are marked in hundreds of shades of colors to satisfy the demand of women. The present investigation was done to formulate herbal lipstick, since lipsticks are one of the key cosmetics to be used by the women. Attempt was also made to evaluate the formulated herbal lipsticks.

Keywords: Cosmetics, Herbs, Herbal lipstick, Formulation, Evaluation

INTRODUCTION

Cosmetics are substances used to enhance the appearance of the human body. Cosmetics include skin-care creams, lotions, powders, perfumes, lipsticks, fingernail and toe nail polish, eye and facial makeup, permanent waves, colored contact lenses, haircolors, hair sprays and gels, deodorants, baby products, bath oils, bubble baths, bath salts, butters and many other types of products are in great demand in both developing and developed countries [1-3].

Herbal cosmetics have growing demand in the world market and are an invaluable gift of nature. There are a wide range of herbal cosmetics products to satisfy your beauty regime, adding herbal in cosmetic is very safe for skin. Human being have been using herbs for different purpose like food, medicine, beautifying with advancement of science & technology use of natural things including plant has been reduced except for food, vegetarian takes plant& plant only. However there is resurgence of use of herbs both as drug and cosmetics [4].

Coloring lips in an ancient practice date back to prehistoric period. In present days the use of product has increased and choice of shades of colors textures, lustures, have been changed and become wider. This can observed from the facts that lipstick is marketed in

hundred of shades of colors to satisfy the demand for the women [4]. Due to various adverse effects of available synthetic preparation the present work was conceived by us to formulate a herbal lipstick having minimal or no side effects which will extensively used by the women of our communities with great surety and satisfaction.

Material and methods

Following methods were adopted by the authors during the course of present investigation.

Selection of herbs

The various herbs used in the formulation of herbal lipsticks were selected on the basis of literature survey [5-6].

Collection and authentication of herbs of plant material

The different herbs used in the development of herbal lipstick were collected in the months of July-Aug 2016 from the local village farmers of Indore district and authenticated by Dr. S. N. Dwivedi, Prof. and Head, Department of Botany, Janata PG College, APS, University, Rewa, M.P-India and a voucher specimen HR/2016/07/01-09 were deposited in our department.

Formulation of herbal lipstick

The herbal lipstick was formulated as per method described⁷⁻⁸. The ingredients used along with their formulation aspects had been mentioned in table 1. All the ingredients are taken in definite ratio and 5 formulations [F1 to F5] were prepared.

Table 1.Ingredients with their prescribed quantity in the formulation of herbal lipstick

S/No.	Ingredients	Importance	Quantity (gm)				
			F1	F2	F3	F4	F5
1.	Mustard Oil	Blending properties	54	50	51	52	53
2.	Gum acacia	Glossy & hardness	15	16	13	13	14
3.	Bees wax	Glossy & hardness	12	13	14	12	11
4.	Ripe fruit of shikakai	Surfactant	6.5	7.5	8.5	9.5	8.0
5.	Palash Flower	Coloring agent	5	5.5	6	5.5	5
6.	Turmeric Powder	Anti-microbial	5	5.5	6	5.5	5
7.	Strawberry essence	Flavoring agent	1.5	1.5	1.0	02	2.5
8.	Lemon juice	Anti-oxidant	01	01	0.5	0.5	0.5
9.	Vanilla essence	Preservative	q.s	q.s	q.s	q.s	q.s

Abbr.: q.s. = quantity sufficient

Table 2.Evaluation of formulated herbal lipsticks (F1 to F5)

S/ No.	Evaluation parameter	Inference				
		F1	F2	F3	F4	F5
1.	Color	Orange-Brownish	Orange-Brownish	Orange-Brownish	Orange-Brownish	Orange-Brownish
2.	pH	6.8±0.2	6.7±0.1	7.0±0.1	6.9±0.3	6.9±0.3
3.	Skin irritation test	No	No	No	No	No
4.	Melting point	60-63	62-64	59-61	61-62	62-64
5.	Breaking point	30	31	30	32	31
6.	Thixotropy character	10.1	10.2	10.4	10.0	9.8
7.	Force of	Good	Easy	Easy	Poor	Poor

	application					
8.	Perfume stability	++	++	+++	+++	++
9.	Surface anomalies	No defect				
10.	Aging stability	Smooth	Smooth	smooth	smooth	smooth

Evaluation of herbal lipstick

It is very essential to maintain a uniform standard for herbal lipstick, keeping this view in mind the formulated herbal lipsticks were evaluated on the parameters such as melting point, breaking point, thixotropy character, force of application, surface anomalies etc.⁹⁻¹⁰

Melting point: Determination of melting point is important as it is an indication of the limit of safe storage. The melting point of formulated lipstick was determined by capillary tube method the capillary was filled, kept in the capillary apparatus and firstly observed the product was slowly-slowly melted. After sometimes was observed the product was completely melted. The above procedure was done in 3 times and the melting point ratio was observed in different-different formulation.

Breaking point: Breaking point is done to determine the strength of lipstick. The lipstick is held horizontally in a socket ½ inch away from the edge of support. The weight is gradually increased by a specific value (10 gm) at specific interval of 30 second and weight at which breaks is considered as the breaking point.

Thixotropy character: It is indication of thixotropic quality and is done by using penetrometer. A standard needle of specific diameter is allowed to penetrate for 5 seconds under a 50 gm load at 25°C. The depth of penetration is a measurement of the thixotropic structure of lipstick.

Force of application: It is test for comparative measurement of the force to be applied for application. A piece of coarse brown paper can be kept on a shadow graph balance and lipstick can be applied at 45° angle to cover a 1 sq. inch area until fully covered. The pressure reading is an indication of force of application.

Surface anomalies: This is studied by the surface defects, such as no formation crystals on surfaces, no contamination by moulds, fungi etc.

Aging stability: The product was stored in 40° C at 1 hrs. Various parameters such as bleeding, crystallization of on surface and ease of application were observed.

pH parameter: The pH of formulated herbal lipstick was determined using pH meter.

Skin irritation test: It is carried out by applying product on the skin for 10 min.

Perfume stability: The formulation herbal lipstick was tested after 30 days, to record the fragrance.

Results and Discussion

In last few decades there has been tremendous boost in use of cosmetics by women. However, the hazards cause by these chemicals has come into limelight very recently. The present work formulation and evaluation of herbal lipsticks was aimed to formulate a lipstick using herbal ingredients with a hope to minimize the side effects as produced by the available synthetic ones. The prepared formulation (Table 1) was evaluated (Table 2) and it was found that the HL, F-3 was best among the five formulations. Hence, from present investigation it was concluded that this formulated herbal lipsticks has better option to

women with minimal side effects though a detailed clinical trials may be done to access the formulation for better efficacy.

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References:

1. Benett W. (1983). *Benett's Cosmetic Formulary, II ed.* Chemical Publishing Company, New York, 90-100.
2. Kaul Shefali and Dwivedi Sumeet (2010). Indigeneous ayurvedic knowledge of some species in the treatment of human disease and disorders. *International Journal of Pharmacy and Life Sciences*, **1(1)**:44-49.
3. Dwivedi Sumeet, Dwivedi Abhishek & Dwivedi S. N. (2008). Folklore uses of some plants by the tribals of Madhya Pradesh with special reference to their conservation. *Ethnobotanical Leaflets*, **12**: 741-743.
4. Chattopadhyay P.K. (2005). *Herbal Cosmetics and Ayuvedic Medicines, I ed.* National Institute of Industrial Research, 45-50.
5. Dwivedi Sumeet and Kaul Shefali. (2008). Ethnomedicinal uses of some plants species by ethnic and rural people Indore district of Madhya Pradesh. *Pharmaceutical Review*, **6(3)**, (Pharmainfo.Net).
6. Nadkarni A.K.(1975). *Indian Materia Medica, 3rd ed, vol. II.* Popular Prakashan, Mumbai.
7. Sharma P.P. (2005). *Cosmetics- formulation and Quality Control, 3rd ed.* Vandana Publication.
8. Jain S.K. & Sharma N.K. (2005). *A Text Book of Pharmaceutics.* Vallabh Prakashan.
9. Mittal B.M. and Saha R.N. (2003). *Handbook of Cosmetics 1sted.* A Vallabh Prakashan.
10. Dwivedi Sumeet, Dwivedi Sangeeta and Patel P.C. (2009). Formulation, evaluation and antimicrobial activity of herbal lipstick, In *Recent Advances in Prospects and Potential of Medicinal Plants*, Ed. S. N. Dwivedi, Gayatri Publication, Rewa, 39-43.